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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of:  
FLUX DRIVE, INC.

Serial No.: 10/790,571

Group Art Unit: 2834

Filed: March 1, 2004

Examiner: Dang D. Le

Title:  
APPARATUS TO TRANSFER  
TORQUE MAGNETICALLY

Date: October 5, 2006

**DECLARATION UNDER 37 CFR 1.132 OF STEVEN J. MILLER, ESO. -**  
**CERTIFYING DOCUMENT AUTHENTICITY**

BE IT ACKNOWLEDGED, that Steven J. Miller, the undersigned declarant, being of legal age, does hereby declare and certify as follows:

1. I have personal knowledge of the facts stated herein and I am competent to testify to these matters.
  
2. I am counsel to the Applicant in the above captioned patent application.
  
3. I hereby certify that attached hereto is Applicant's Exhibit B, Exhibit C and Exhibit D are true copies of the definitions and technical information they purport to be, and were printed directly off of the internet from the URL locations set forth on the bottom of said exhibits.

4. Pursuant to 28 USC 1746, I declare under penalty of perjury that the forgoing is true and correct, except as to statements made upon information and belief, and as to those I believe them to be true.

Executed this 5<sup>th</sup> day of October 2006.

  
\_\_\_\_\_  
Steven J. Miller, Esq.

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## ferromagnetic

One entry found for **ferromagnetic**.

Main Entry: **fer·ro·mag·net·ic** 

Pronunciation: **-'ne-tik**

Function: **adjective**

: of or relating to substances with an abnormally high magnetic permeability, a definite saturation point, and appreciable residual magnetism and hysteresis

- **fer·ro·mag·net**  /'fer-ə-''mag-nət/ **noun**

- **fer·ro·mag·ne·tism**  /"fer-O-'mag-nə-''ti-zəm/ **noun**

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### Pronunciation Symbols

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8/29/2006

You are here: About > Education > Chemistry > Periodic Table & Elements > Periodic Table of the Elements - Iron

# About Chemistry

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# Periodic Table of the Elements

## Iron

Fe

|                        |   |
|------------------------|---|
| Atomic Number          | 26  |
| Symbol                 | Fe  |
| Atomic Weight          | 55.847  |
| Discovery              | Known since prehistoric time.   |
| Electron Configuration | [Ar]4s <sup>2</sup> 3d <sup>6</sup>   |
| Word Origin            | Latin <i>ferrum</i> ; Anglo-Saxon <i>iron</i>   |
| Isotopes               | There are 14 known isotopes of iron. Common iron consists of a mixture of 4 isotopes.   |
| Properties             | The melting point of iron is 1535°C, boiling point is 2750°C, specific gravity is 7.874 (20°C), with a valence of 2, 3, 4, or 6. Pure iron is chemically reactive and corrodes rapidly, especially in moist air or at elevated temperatures. Four allotropic forms, or ferrites, are known: $\alpha$ , $\beta$ , $\gamma$ , and $\delta$ , with transition points at 770, 928, and 1530°C. The $\alpha$ form is magnetic, but when iron is transformed into the $\beta$ form, the magnetism disappears, although the lattice remains unchanged.   |
| Uses                   | Iron is vital to plant and animal life. In humans, it appears in the hemoglobin molecule. Iron metal is usually alloyed with other metals and carbon for commercial uses. Pig iron is an alloy containing about 3% carbon, with varying quantities of Si, S, P, and Mn. Pig iron is brittle, hard, and fairly fusible and is used to produce other iron alloys, including steel. Wrought iron contains only a few tenths of a percent of carbon and is malleable, tough, and less fusible than pig iron. Wrought iron typically has a fibrous structure. Carbon steel is an iron alloy with carbon and small amounts of S, Si, Mn, and P. Alloy steels are carbon steels that contain additives such as chromium, nickel, vanadium, etc. Iron is the least expensive, most abundant, and most used of all metals. |
| Sources                | Iron is a relatively abundant element in the universe. The sun and many types of stars contain iron in quantity. Iron is found native in a class of meteorites called <i>siderites</i> and it is a minor constituent of the other two classes of meteorites. The Earth's core is thought to be composed mainly of iron, with about 10% occluded hydrogen. Iron is the fourth most abundant element in the Earth's crust. The most common iron ore is hematite ( $Fe_2O_3$ ), from which iron metal is obtained by reduction with carbon. Iron is also found in minerals such as taconite and magnetite, which is commonly seen as black sands along beaches and stream banks.   |

Sources: Los Alamos National Laboratory (2001), Crescent Chemical Company (2001), Lange's Handbook of Chemistry (1952)

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HOUGHTON MIFFLIN

[ferrotype](#)[ferrous oxide](#) >**ferrous** (fər'əs) **KEY****ADJECTIVE:**

Of or containing iron, especially with valence 2 or a valence lower than in a corresponding ferric compound.

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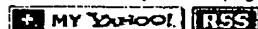
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